

IN THE CLAIMS

Claims 1 to 7 are pending in this application.

1. (Currently Amended) A method for displaying results of a hybridization experiment in which a plurality of probe biopolymers immobilized on a biochip are hybridized to a sample biopolymer, the method comprising the ~~[[step]]~~ steps of:

determining information obtained in the hybridization experiment about a hybridization level for each of the probe biopolymers;

determining a similarity score representing a similarity between a base sequence of at least one of the probe biopolymers and a base sequence of at least one other of the probe biopolymers; and

displaying ~~said~~ information ~~obtained in the hybridization experiment~~ about ~~[[a]]~~ the hybridization level for each of the probe biopolymers together with ~~[[a]]~~ said similarity score ~~representing the similarity of base sequences between the probe biopolymers~~ so as to provide at least one of a visual confirmation of similarities between the base sequences of corresponding biopolymers used in the hybridization experiment and a visual indication of unexpected or improper hybridization.

2. (Original) The method for displaying results of a hybridization experiment according to claim 1, wherein different depths in a color are assigned to different values of the similarity score for displaying.
3. (Original) The method for displaying results of a hybridization experiment according to claim 1, wherein different depths in a color are assigned to different values of the similarity score, and subject probe biopolymers are arranged horizontally and vertically to form a matrix for displaying.
4. (Original) The method for displaying results of a hybridization experiment according to any one of claims 1 to 3, wherein the information about the hybridization level is displayed by assigning different depths in a color to different values of the hybridization

level, or by providing spot images of respective probe biopolymers.

5. (Previously presented) The method for displaying results of a hybridization experiment according to any one of claims 1 to 3, wherein probe biopolymer data, hybridization levels and similarity scores are displayed side by side by sorting them by values of the similarity score between specific one of the probe biopolymers and each of the probe biopolymers.
6. (Original) The method for displaying results of a hybridization experiment according to claim 5, wherein the hybridization levels obtained from a plurality of biochips are displayed side by side.
7. (Original) The method for displaying results of a hybridization experiment according to claim 6, wherein a profile of changes in the hybridization level of the subject biopolymers on said plurality of biochips is statistically analyzed, and the results of the analysis are displayed together with the results of clustering the probe biopolymers side by side.